## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Original) A digitally-controlled pyroelectric signal sampling circuit, which comprises:

a trigger-signal generating unit for generating a trigger signal, a first sampling signal, and a second sampling signal, which are substantially fixed in frequencies and timings irrespective of temperature changes in the ambient environment;

a light source module, which is triggered by the trigger signal from the triggersignal generating unit to emit an alternating light beam;

a pyroelectric sensor module for sensing the emitted alternating light beam from the light source module to thereby generate an alternating pyroelectric signal;

a first sample-and-hold circuit, which is clocked by the first sampling signal generated by the trigger-signal generating unit, to sample each upper peak of the alternating pyroelectric signal from the pyroelectric sensor module and thereby generate a first sampled signal;

a second sample-and-hold circuit, which is clocked by the second sampling signal generated by the trigger-signal generating unit, to sample each bottom peak of the alternating pyroelectric signal from the pyroelectric sensor module and thereby generate a second sampled signal; and

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a subtraction circuit for performing a subtraction operation on the first sampled signal generated by the first sample-and-hold circuit and the second sampled signal generated by the second sample-and-hold circuit to thereby obtain a difference signal;

wherein the difference signal from the subtraction circuit is substantially a direct current (DC) output and serves as an output of the digitally-controlled pyroelectric signal sampling circuit.

- 2. (Original) The digitally-controlled pyroelectric signal sampling circuit of claim 1, wherein the trigger-signal generating unit comprises:
  - a crystal oscillator for generating an oscillating signal; and
- a microprocessor, which is driven by the oscillating signal from the crystal oscillator to generate the trigger signal, the first sampling signal, and the second sampling signal.
- 3. (Original) The digitally-controlled pyroelectric signal sampling circuit of claim 1, wherein the pyroelectric sensor module further provides an amplification function capable of amplifying the alternating pyroelectric signal output therefrom by a specified gain.
- 4. (Original) The digitally-controlled pyroelectric signal sampling circuit of claim 1, wherein the light source module is an infrared type of light source module.

## 5. (Canceled)

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- 6. (Canceled)
- 7. (Canceled)
- 8. (Canceled)
- 9. (Canceled)